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(54) **Process for the preparation of 5,5'-bi-1H-Tetrazolediammonium salts using hydrazine hydrate and dicyan as starting materials**

(57) A process for preparing 5,5'-bi-1H-tetrazolediammonium salts ($\text{BHT} \cdot 2\text{NH}_3$) maintaining a high yield through oxaldiimidic acid dihydrazide (OAH) from the starting materials which are cheaply available and are easy to handle. The 5,5'-bi-1H-tetrazolediammonium salts ($\text{BHT} \cdot 2\text{NH}_3$) are prepared by dissolving the oxaldiimidic acid dihydrazide (OAH) obtained by the reaction of hydrated hydrazide with dicyan in an aqueous solu-

tion of a weakly acidic compound such as acetic acid, dropwisely adding an aqueous solution of sodium nitrite thereto form an azide thereof and to effect the cyclization reaction by heating, adding an aqueous solution of sodium hydroxide to the reaction product to convert it into a 5,5'-bi-1H-tetrazolediammonium salt ($\text{BHT} \cdot 2\text{Na}$), reacting it with an aqueous solution of ammonium chloride, and recovering the formed ammonium salt as sparingly soluble crystals.

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EUROPEAN SEARCH REPORT

Application Number
EP 01 30 2734

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Place of search MUNICH		Date of completion of the search 20 September 2001	Examiner Schmid, J-C
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application I : document cited for other reasons --- & : member of the same patent family, corresponding document	



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EUROPEAN SEARCH REPORT

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EP 01 30 2734

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<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>			

**ANNEX TO THE EUROPEAN SEARCH REPORT
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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
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